

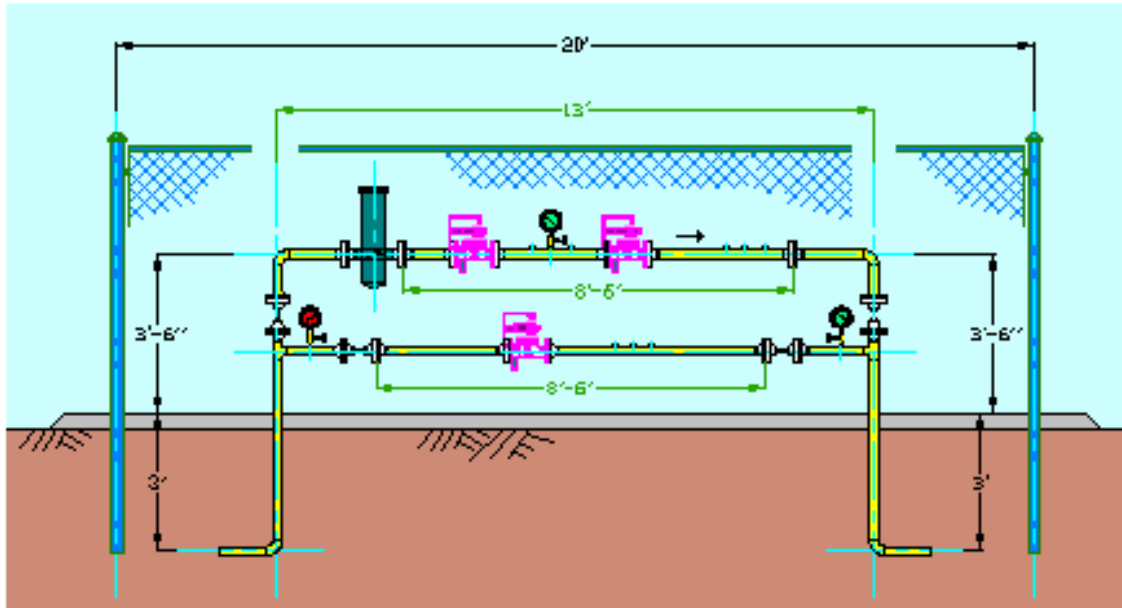


Synopsis of Natural Gas Construction Specifications

1. A permanent utility right-of-way easement shall be provided for all natural gas mains, services, regulator stations, and associated or ancillary equipment.
2. Plans shall be provided on paper drawings and in AutoCAD format, NAD83 datum, on a CD showing the location of all gas mains, valves, services, meters, and regulator stations.
3. All mains and services shall be constructed in accordance with U.S. Department of Transportation Regulations, Title 49 CFR, Part 192, Florida Public Service Commission Rules Chapter 25-12, and the Florida Administrative Code (F.A.C.)
4. All mains and services shall be United States domestic, welded, steel pipe with fusion bonded epoxy (FBE) coating.
5. Joint coating shall be of approved material and method.
6. Mains shall be API 5L Grade X42.
7. Services shall be ASTM A53 or ASTM A106 (high temperature) steel pipe, and shall be $\frac{3}{4}$ " or larger.
8. No steel pipe will be unloaded unless it is accompanied by a Mill Test Report for the actual pipe on the truck.
9. ALL welders shall be tested on the pipe material and each size to be used and shall be approved by the City of Leesburg Gas Department.
10. Valves shall be class 300 Ballomax welded steel complete with valve box.
11. Mains shall have a minimum depth of cover of 30 inches as measured from the finish grade to the top of the pipe or top of the service No-Blo™ tee fitting.
12. Services shall have a minimum depth of cover of 18 inches as measured from the finish grade to the top of the service or associated fitting.
13. Each main and service must be installed with at least 12 inches of clearance from any other underground structure, and shall provide enough room to allow proper maintenance and be located so as to provide for protection against damage that might result from proximity to other structures.
14. Natural gas meters must be located for efficient meter reading, and shall not be obscured with landscaping. If electricity is provided by the City of Leesburg, the gas meter may be required to be located near the electric meter. When possible, one service line should branch to feed two meters.
15. Each new or replaced service line serving a single family residence, must be installed with an Excess Flow Valve (EFV), meeting performance standards developed under Section 60110(e) of Title 49, United States Code.
16. Regulator Station(s). See Typical Regulator Station.
17. Gas Meter Set. See typical Natural Gas Meter Set.



Typical Natural Gas Regulator Station

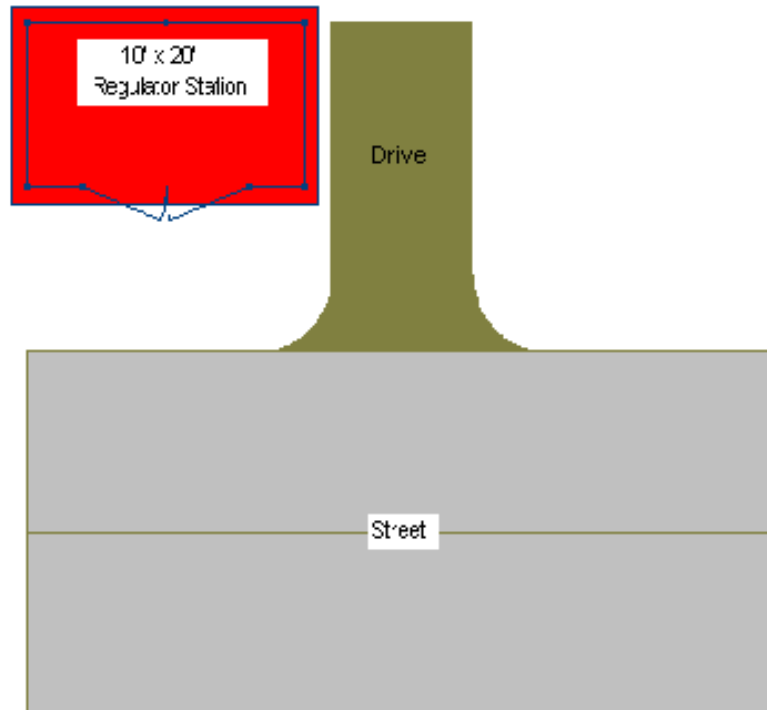


Most new housing developments will require at least one regulator station per 500 homes. The regulator station(s) shall meet the following requirements:

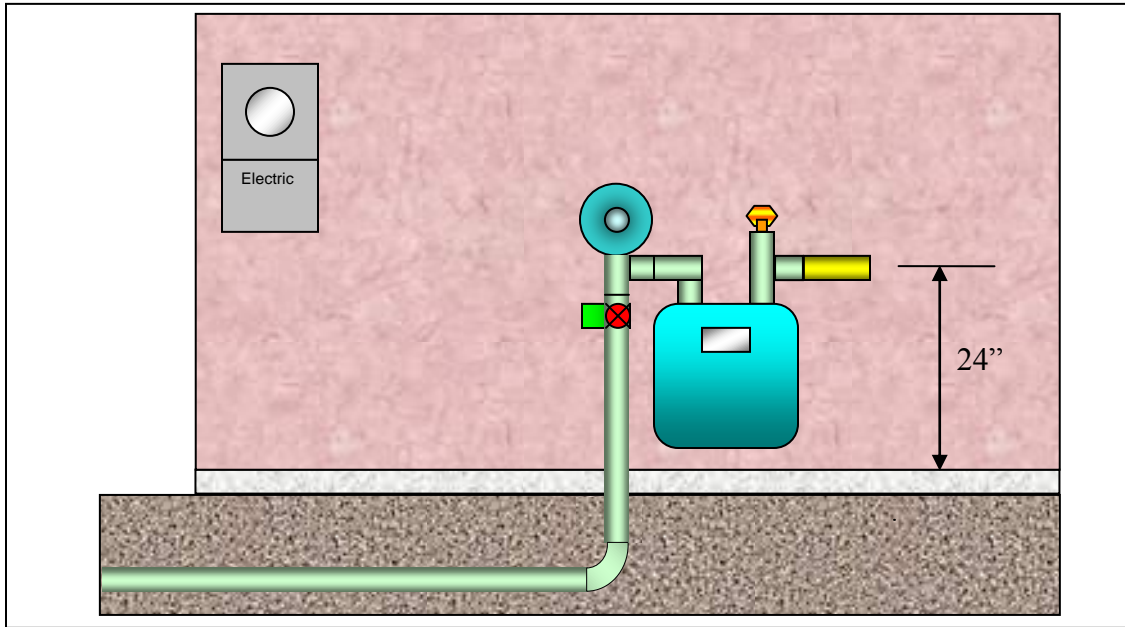
1. An area shall be provided for each regulator station. When practical, as determined by the City the area shall include a driveway or other area for safe parking of gas maintenance vehicles away from normal traffic flow. This area shall be readily accessible 24 hours per day and shall not be within another lockable area such as a maintenance area unless City approved access is provided. Gated communities shall always provide current gate codes.
2. Regulator stations shall be fenced and shall typically be a minimum of 10 feet by 20 feet inside the fenced area. A 12-foot double gate shall be centered on the long side.
3. Inside the fenced area and to 1 foot outside the fence, the ground shall be covered with a weed control fabric and 4 inches of gravel.
4. Landscaping may be used if desired or required by local code, but will not be permitted within the fenced regulator station, and shall not obstruct the gate or limit access to the station. Tree limbs shall not be allowed to hang over into the station.
5. A SCADA (Supervisory Control and Data Acquisition) system may be required to monitor the gas system for safe operation. A VHF antenna of up to 20 feet in height may be installed.

6. An underground valve shall be located no less than 100 feet or no more than 500 feet upstream of the regulator station so that it may be isolated in case of emergency.

Typical Regulator Station Site Plan



Typical Natural Gas Meter Set



Pictured above is a typical City of Leesburg natural gas residential meter set. The Gas Department is responsible for the installation of the service line and meter.

1. The meter will be located in the general vicinity of the electric meter when served by the Leesburg Electric Department.
2. The meter installation shall comply with all applicable codes and ordinances.
3. The City of Leesburg will set the meter after the service line has been run.
4. The customer inlet stub to the building shall be located 24" above the finished slab and extend no more than 8" from the finished wall.
5. The plumbing contractor is responsible for making the connection from the house piping to the gas meter. Care should be taken to keep the service riser plumb and the meter level and square to the building.
6. **Natural gas will not be turned on if a meter is misaligned or in a bind.**
7. The City of Leesburg will provide a plugged tee at the outlet of the meter for connection to the house piping by the contractor. A brass fitting and cap is attached to the top of the tee. This is for testing purposes and should not be used to connect house piping.